DT04 Rec'd PCT/PT0 2 8 SEP 2004

- 1. (original) Use of a pleuromutilin in the preparation of a medicament for the treatment of diseases caused by *Mycobacterium*.
- 2. (original) A method of treating diseases mediated by Mycobacterium, comprising administering to a subject in need of such treatment an effective amount of a pleuromutilin.
- 3. (currently amended) <u>A Use according to claim 1 or a method according to claim 2 wherein Mycobacterium is Mycobacterium tuberculosis.</u>
- 4. (currently amended) Use or a A method according to any one of the preceding claims claim 2 wherein a pleuromutilin is a compound comprising the basic structural elements as set out in formula

wherein R is vinyl or ethyl and the dotted line is a bond or is no bond.

- 5. (original) Use or a method according to claim 4 wherein a pleuromutilin is selected from the group consisting of
 - a compound of formula

- a compound of formula,

- a compound of formula

- a compound of formula

- a compound of formula

- a compound of formula

- a compound of formula

- a compound of formula

- a compound of formula

and

- a compound of

6. (original) A compound selected from the group consisting of compounds of formulae as set out in TABLE 1:

TABLE 1 CH₂ CH₂ [′]CH³OH [∾]CH³OH CH3 ruu CH₃ H₃C ··· 0" ĊН₃ ŃΗ, CH₂ CH₃OH CH₂ [∾]CH³OH ···· CH₃ ···· CH₃ NH₂ MH MH H₃Ċ CH₂ CH₂ [∞]CH₃OH [∾]CH₃OH "" CH₃ `O''' H₃C ··· H₃C-···· CH₃ H₂N H₃C NH₂ CH₂ CH₂ ∾_{CH}3OH ″_{СН}³ОН ····· CH₃ ···· CH_a xHCl ÇH₃ || || NH₂

7. (original) A compound of formula

wherein

the dotted line is a bond (double bond between positions a=b), R_{1A} is hydrogen and R_{2A} is not present,

or

the dotted line is no bond (single bond between positions a-b) and R_{1A} and R_{2A} independently of each other are hydrogen, halogen or deuterium,

R_{3A} is (C₁₋₆)alkyl,

R_{4A} is hydrogen, (C₁₋₆)alkyl, a group -C(=NH)-NH₂, or the residue of an amino acid,

R_{5A} is hydrogen, or

 R_{4A} and R_{5A} together are a group = CH-NH₂,

R_{6A} is hydrogen or deuterium, and

m_A is 0, 1, 2, 3, 4, or 5.

- 8. (original) A 14-O-(oximino-(C₃₋₈)cycloalkyl-sulfanylmethylcarbonyl)-pleuromutilin and a 14-O-(hydrazono-(C₃₋₈)cycloalkyl-sulfanylmethylcarbonyl)-pleuromutilin.
- 9. (original) A compound of formula

$$\begin{array}{c} CH_2 \\ CH_{3OH} \\ X_B - N = \begin{array}{c} R_{3B} \\ (CH_2)_{mB} \end{array} \begin{array}{c} R_{10B} \\ H_3C \end{array} \begin{array}{c} R_{10B} \\ R_{1B} \end{array} \begin{array}{c} R_{1B} \\ R_{2B} \end{array} \end{array} \begin{array}{c} R_{1B} \\ R_{2B} \end{array}$$

wherein

 R_{1B} has the meaning of R_{1A} as defined in claim 7,

 R_{2B} has the meaning of R_{2A} as defined in claim 7,

 R_{10B} has the meaning of R_{6A} as defined in claim 7,

the dotted line has the meaning as defined in claim 7,

m_B has the meaning of m_a as defined above,

R_{3B} is hydrogen or (C₁₋₆)alkyl,

 X_B is -O-R_{4B} or-NR_{5B}R_{6B},

R_{4B} is hydrogen or (C₁₋₆)alkyl, optionally substituted by a group -NR_{7B}R_{8B},

R_{5B} and R_{6B} independently of each other are (C₁₋₄)alkyl,

R_{7B} and R_{8B} independently of each other are (C₁₋₄)alkyl, or

 R_{7B} and R_{8B} together with the nitrogen atom to which they are attached form aliphatic heterocyclyl, having 5 to 8 ring members, and

R_{9B} is hydrogen or (C₁₋₄)alkyl.

10. (original) A compound of formula

wherein

 R_{1C} has the meaning of R_{1A} as defined in claim 7,

 R_{2C} has the meaning of R_{2A} as defined in claim 7,

the dotted line has the meaning as defined in claim 7,

 R_{4C} has the meaning of R_{6A} as defined in claim 7, and

 R_{3C} is amino, (C_{1-4}) alkylamino, di (C_{1-4}) alkylamino, the residue of an amino acid, hydroxy, or (C_{1-4}) alkoxy.

11. (original) A compound of formula

wherein

 R_{1D} has the meaning of R_{1A} as defined in claim 7,

 R_{2D} has the meaning of R_{2A} as defined in claim 7,

 R_{4D} has the meaning of R_{6A} as defined in claim 7,

the dotted line has the meaning as defined in claim 7, and

 R_{3D} is aliphatic heterocyclyl of 4 to 8 ring members, and comprising one nitrogen atom as the heteroatom, or (C_{4-8})cycloalkyl, which heterocyclyl or cycloalkyl is substituted by hydroxy or oxo.

- 12. (currently amended) A compound of any one of claims 7 to 11 in the form of a salt.
- 13. (currently amended) A compound of any one of claims 7 to 12 for use as a pharmaceutical.
- (currently amended) A pharmaceutical composition comprising a compound of of any one
 of claims 7 to 12 in association with at least one pharmaceutical excipient.
- 15. (original) A pharmaceutical composition according to claim 13, further comprising another pharmaceutically active agent.
- 16. (original) A pharmaceutical composition comprising a pleuromutilin in association with at least one pharmaceutical excipient, and further comprising another pharmaceutically active agent useful in the treatment of Mycobacterium infections.
- 17. (currently amended) A compound of any one of claims 7 to 12, or a pharmaceutical composition of any one of claims 14 or 15 for use in the preparation of a medicament for the treatment of microbial diseases.
- 18. (currently amended) A method of treatment of microbial diseases, which method comprises administering to a subject in need of such treatment an effective amount of a compound of any one of claims 7 to 12 or a pharmaceutical composition of any one of claims 14 or 15.